

Find: [Documents](#)[Citations](#)

Searching for data race and happens before.

Restrict to: [Header](#) [Title](#) Order by: [Citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Amazon](#) [B&N](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

7 documents found. Order: citations weighted by year.

[Eraser: A Dynamic Data Race Detector for...](#) - Savage, Burrows. (1997) (Correct) (54 citations)

Eraser: A Dynamic Data Race Detector for Multithreaded Programs STEFAN

in dynamic race detection is based on Lamport's **happensbefore** relation [Lamport 1978] and checks that
www.cs.washington.edu/homes/savage/papers/Tocs97.pdf[Eraser: A Dynamic Data Race Detector for...](#) - Savage, Burrows. (1997) (Correct) (54 citations)

Eraser: A Dynamic Data Race Detector for Multi-Threaded Programs Stefan

dynamic race detection is based on Lamport's **happens-before** relation[Lamport 78] and checks that
www.cs.washington.edu/homes/savage/papers/sosp97.ps[A Unified Formalization of Four Shared-Memory Models](#) - Adve (1993) (Correct) (104 citations)This paper presents a shared-memory model, **data-race-free-1**, that unifies four earlier models: weak
ftp.cs.wisc.edu/markhill/Papers/topds93_drf1.ps[Sufficient Conditions for Implementing the Data-Race-Free-1..](#) - Sarita Adve (1992) (Correct) (4 citations)1992 Sufficient Conditions for Implementing the **Data-Race-Free-1** Memory Model Sarita V. Adve Mark
denotes synchronization-order-1, hb1 denotes **happens-before-1**, and xo denotes execution order. A
www.ece.rice.edu/~sarita/Publications/dr1_tr.ps[Happened Before is the Wrong Model for Potential Causality](#) - Tarafdar, Garg. (1998) (Correct)happened before has been used in tools to detect **data races** in multi-threaded programs. Savage, et al [SBNBefore and Potential Causality If an event **happens** before another event, it has the potential forPotential Causality True Causality Occurred **Before** Happened Before Potentially Causes Truly Causes (www.ece.utexas.edu/~garg/dist/TR0698.ps.Z[Towards Integration of Data Race Detection in DSM Systems](#) - In (Correct)

Towards Integration of Data Race Detection in DSM Systems To appear in JPDC

follow the approach of [1, 19]based on the **happens-before** relation in [10]The basic observation iswww.cs.technion.ac.il/~assaf/publications/oren.ps[Carlsberg: A Distributed Execution Environment Providing...](#) - Position.. (Correct)such as the weak [12]release [16]and "Data Race Free 1" DRF1 1,20] models, offer higher
are conceptually based on Lamport's **happens-before** relation, which captures the notion ofwww.cs.rice.edu/~rjf/papers/NWPER94.ps.gzTry your query at: [Amazon](#) [Barnes & Noble](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)CiteSeer - citeseer.org - [Terms of Service](#) - [Privacy Policy](#) - Copyright © 1997-2002 NEC Research Institute

Find: [Documents](#)[Citations](#)

Searching for PHRASE data race detection.

Restrict to: [Header](#) [Title](#) Order by: [Citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Amazon](#) [B&N](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

27 documents found. Order: citations weighted by year.

[Using Runtime Analysis to Guide Model Checking of Java Programs - Havelund \(2000\)](#) (Correct) (4 citations)runtime analysis algorithms, an existing **data race detection** algorithm and a new deadlock detection
ic.arc.nasa.gov/ic/publications/pdf/2000-0177.pdfOne or more of the query terms is very common - only partial results have been returned. Try [Google \(RI\)](#).[Improving the Accuracy of Data Race Detection - Netzer \(1991\)](#) (Correct) (27 citations)Improving the Accuracy of Data Race Detection Robert H. B. Netzer netzer@cs.wisc.edu
casaturn.kaist.ac.kr/~sikang/course/CS614/NM91.ps.gz[Optimal Tracing and Replay for Debugging Shared-Memory.. - Robert Netzer \(1993\)](#) (Correct) (19 citations)time and space complexity of on-the-fly **data race detection**, requiring $O(mp)$ space (where p is the
ftp.cpsc.ucalgary.ca/pub/users/stevef/Simulation/Reports1/cs93-15.ps.Z[Online Data-Race Detection via Coherency Guarantees - Dejan Perkovi \(1996\)](#) (Correct) (13 citations)Online Data-Race Detection via Coherency Guarantees Dejan Perkovi c
www.cs.umd.edu/~keleher/papers/osdi96.ps.gz[Detecting Data Races in Cilk Programs that Use Locks - Guang-Ien Cheng \(1998\)](#) (Correct) (6 citations)a data race is usually a bug, automatic **data-race detection** has been studied extensively. Static race
theory.lcs.mit.edu/pub/cilk/brelly.ps.gz[Shared Memory Consistency Conditions for Non-Sequential.. - Attiya, al. \(1993\)](#) (Correct) (14 citations)and B. Miller. Improving the Accuracy of Data Race Detection. In Proc. of the 3rd ACM Symposium on
casaturn.kaist.ac.kr/~sikang/course/CS614/ACFW93.ps.gz[Synthesizing Dynamic Programming Algorithms from Linear.. - Rosu, Havelund \(2001\)](#) (Correct) (1 citation)for Java. In earlier work, we implemented **data race detection** and deadlock detection algorithms for
ase.arc.nasa.gov/grosu/download/dtfl.ps.gz[Analysis of Multithreaded Programs - Rinard \(2001\)](#) (Correct) (1 citation)parallel threads. Sections 4 and 5 discuss **data race detection** for activity management programs and
www.cag.lcs.mit.edu/~rinard/paper/sas01.ps[Detecting Data Races in Parallel Program Executions - Netzer \(1989\)](#) (Correct) (15 citations)and then present a two-phase approach to **data race detection** that attempts to validate the accuracy of
grilled.cs.wisc.edu/technical_papers/detecting.ps.Z[HPFIT: A Set Of Integrated Tools For The.. - Brandes.. \(1996\)](#) (Correct) (4 citations)and tools for automatic data distribution, **data-race detection**, static performance estimation, and
www.ens-lyon.fr/~desprez/FILES/RESEARCH/PAPERS/HPFIT/ws_part1.ps.gz[The D Editor: A New Interactive Parallel Programming Tool - Hiranandani, Kennedy.. \(1994\)](#) (Correct) (2 citations)performing automatic data decomposition [3]**data-race detection**, static performance estimation [4, 20]
softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR94488.ps.gz[Execution Replay and Debugging - Ronsse, De Bosschere, de Kergommeaux \(Correct\) \(4 citations\)](#)be used to debug the program: visualisation, **data race detection**, etc. is possible during replay without
www.bruegge.in.tum.de/projects/AADEBUG/proceedings/debosschere-invited.ps.gz[FIAT: A Framework for Interprocedural Analysis and.. - Carle, Hall.. \(1995\)](#) (Correct) (1 citation)tools, including completed systems for **data race detection** and static performance estimation, and
softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR95522-S.ps.gz[Algorithms for Data-Race Detection in Multithreaded Programs - Cheng \(1998\)](#) (Correct)

Algorithms for Data-Race Detection in Multithreaded Programs by Guang-LEN
www.lcs.mit.edu/publications/pubs/pdf/MIT-LCS-TR-758.pdf

[Non-intrusive on-the-fly data race detection using...](#) - Ronsse, De Bosschere (Correct)
Non-Intrusive On-The-Fly Data Race Detection Using Execution Replay. Michiel Ronsse
www.bruegge.in.tum.de/projects/AADEBUG/proceedings/20ronsse.ps.gz

[Design and Implementation of the D Editor \(Extended Abstract\)](#) - Hiranandani, al. (Correct)
performing automatic data decomposition [2] **data-race detection**, static performance estimation [3, 13]
www.cs.umd.edu/projects/cosmic/papers/siam94.ps

[Distributed Shared Memory: Bridging the Granularity Gap](#) - Itzkovitz, Schuster (1999) (Correct)
services, such as garbage collection and **data race detection**. Indeed, using MultiView results in a
www.cs.umd.edu/~keleher/wsdsm99/1999/schuster-granularity.pdf

[Towards Integration of Data Race Detection in DSM Systems](#) - In (Correct)
Towards Integration of **Data Race Detection** in DSM Systems To appear in JPDC special
www.cs.technion.ac.il/~assaf/publications/oren.ps

First 20 documents [Next 20](#)

Try your query at: [Amazon](#) [Barnes & Noble](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

CiteSeer - [citeseer.org](#) - [Terms of Service](#) - [Privacy Policy](#) - Copyright © 1997-2002 [NEC Research Institute](#)

Find: [Documents](#)[Citations](#)

Searching for PHRASE data race detection.

Restrict to: [Header](#) [Title](#) Order by: [Citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Amazon](#) [B&N](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)27 documents found. Order: **citations weighted by year**.[Memory Systems for Parallel Programming - By Bradley](#) (Correct)

: 3 1.2 Data Race Detection :

<ftp://cs.wisc.edu/pub/tech-reports/ncstrl.uwmadison/CS-TR-96-1322/CS-TR-96-1322.ps.Z>[Consistency Conditions for Distributed Shared Memories - Friedman](#) (1994) (Correct)and B. Miller. Improving the Accuracy of **Data Race Detection**. In Proc. of the 3rd ACM Symposium on casaturn.kaist.ac.kr/~sikang/course/CS614/Fri94.ps.gz[Algorithms for Data-Race Detection in Multithreaded Programs - Cheng](#) (1997) (Correct)Algorithms for **Data-Race Detection** in Multithreaded Programs by Guang-LEN
theory.lcs.mit.edu/pub/cilk/cheng-thesis.ps.gz[Detecting Data Races on Weak Memory Systems Sarita V. Adve.. - Computer Sciences](#) (Correct)we investigate the extension of dynamic **data race detection** techniques developed for sequentially
www.ece.rice.edu/~sarita/Publications/isca91.dataraces.ps[Compile-time Support for Efficient Data Race Detection in.. - John Mellor-Crummey](#) (Correct)Compile-time Support for Efficient **Data Race Detection** in Shared-Memory Parallel Programs John
softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR92232.ps.gz[A Protocol-Centric Approach to On-The-Fly Race Detection - Dejan Perkovi](#) (Correct)present the design and evaluation of a new **data-race-detection** technique. Our technique executes at
www.cs.umd.edu/~keleher/papers/tpdsSubmit.ps.gz[Distributed Shared Memory: Bridging the Granularity Gap - Itzkovitz, Schuster](#) (Correct)services, such as garbage collection and **data race detection**. Indeed, using MultiView results in a
www.cs.technion.ac.il/~assaf/publications/hot.ps[Documents 21 to 27](#) [Previous 20](#)Try your query at: [Amazon](#) [Barnes & Noble](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)CiteSeer - [citeseer.org](#) - [Terms of Service](#) - [Privacy Policy](#) - Copyright © 1997-2002 [NEC Research Institute](#)

Searching for **race and condition variable**.

Restrict to: [Header](#) [Title](#) Order by: [Citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Amazon](#) [B&N](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

13 documents found. Order: **citations weighted by year**.

[Using Runtime Analysis to Guide Model Checking of Java Programs - Havelund \(2000\) \(Correct\) \(4 citations\)](#)

runtime analysis algorithms, an existing data **race** detection algorithm and a new deadlock detection

Race condition! Variable x in class Value is

ic.arc.nasa.gov/ic/publications/pdf/2000-0177.pdf

[Parallel Application Software on High Performance Computers.. - Allan, Müller \(1999\) \(Correct\) \(2 citations\)](#)

: 25 4.2 **Race Conditions** :

: 22 3.5 **Using Condition Variables** :

www.dl.ac.uk/TCSC/Subjects/Parallel_Algorithms/SMPreport/smp_doc.ps

[Thread-Safe Message Passing With P4 and MPI - Aswini Chowdappa \(1994\) \(Correct\) \(3 citations\)](#)

concurrently without leading to erroneous results, **race** conditions or deadlocks. Multiple threads destroy)synchronization (mutual exclusion, **condition variable**, semaphores)and signal handling. An nscp01.physics.upenn.edu/parallel/environments/mpi/unify/reports/Message-Passing/p4-mpi-pthreads.ps.Z

[Advanced Thread Synchronization in Java - Heinlein \(Correct\)](#)

already high enough possibility of undesired **race** conditions evenfurther. Using the bounded buffer complicated by the fact that monitors and **condition variables** -w hich have been related, but separate www.netobjectdays.org/node/02/de/Conf/publish/.../.../pdf/02/papers/node/0361.pdf

[A Type System for Preventing Data Races and Deadlocks.. - Chandrasekhar.. \(Correct\)](#)

A Type System for Preventing Data **Races** and Deadlocks in Java Programs Chandrasekhar where clauses in [11, 24]Support for **Condition Variables**: In addition to mutual exclusion locks, www.lcs.mit.edu/publications/pubs/pdf/MIT-LCS-TR-839.pdf

[Systematic Testing of Multithreaded Programs - Bruening, Chapin \(Correct\)](#)

A toolcalled the Nondeterminator [FL97] detects data **races** in Cilk, a multithreaded variant of C. The or using an if insteadofawhile to test a **condition variable**. The rest of the paper is organized as www.lcs.mit.edu/publications/pubs/pdf/MIT-LCS-TM-607.pdf

[A Thread Visualization System - Michael Bedy And \(Correct\)](#)

to help students learn to avoid these risks (e.g.**race** conditions and deadlocks) This system uses an classes. Additionally, Monitor provides a **Condition variable** class. These classes provide a more www.cs.mtu.edu/~shene/NSF-3/visual.ps.gz

[Leader/Followers - Design Pattern For \(Correct\)](#)

request into/from the message queue. ffl Prevent **race** conditions on handle sets: Multiple threads that synchronizer, such as a mutex, semaphore, or **condition variable**. For instance, a pool of threads cannot www.cs.wustl.edu/~schmidt/lf.ps.gz

[A Portable Class Library for Teaching Multithreaded Programming - Steve Carr And \(Correct\)](#)

by a static analyzer for potential deadlocks and **race** conditions. At this stage, a student should have class Condition that implements classic **condition variables**. Since Cclasses are not synchronized, www.cs.mtu.edu/~shene/NSF-3/..../edu/ticse00.ps.gz

[A Model Checker for Statecharts \(Linking CASE tools with Formal.. - Day \(1993\) \(Correct\)](#)

: 18 2.2.2 Multiple Actions on a Transition and **Race Conditions** : 21

: 46 5.4 **Variable Condition** (var Cond)

: 47 5.4.3 Evaluating the **Variable Condition** :

ftp.cs.ubc.ca/ftp/local/techreports/1993/TR-93-35.ps.gz

Try your query at: [Amazon](#) [Barnes & Noble](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

CiteSeer - citeseer.org - [Terms of Service](#) - [Privacy Policy](#) - Copyright © 1997-2002 NEC Research Institute

Find: [Documents](#)[Citations](#)

Searching for **data race and event synchronization**.

Restrict to: [Header](#) [Title](#) Order by: [Citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Amazon](#) [B&N](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

7 documents found. Order: **citations weighted by year**.

[Eraser: A Dynamic Data Race Detector for.. - Savage, Burrows.. \(1997\) \(Correct\) \(54 citations\)](#)

Eraser: A Dynamic Data Race Detector for Multithreaded Programs STEFAN

from different threads are separated by **synchronization events**. Happensbefore algorithms handle many

www.cs.washington.edu/homes/savage/papers/Tocs97.pdf

[Eraser: A Dynamic Data Race Detector for.. - Savage, Burrows.. \(1997\) \(Correct\) \(54 citations\)](#)

Eraser: A Dynamic Data Race Detector for Multi-Threaded Programs Stefan

from different threads are separated by **synchronization events**. Happens-before algorithms handle many

www.cs.washington.edu/homes/savage/papers/sosp97.ps

[Analysis of Event Synchronization in A Parallel Programming Tool - Callahan \(1990\) \(Correct\) \(35 citations\)](#)

The objective is to be able to predict potential **data races** in a parallel program. The focus is on how

[Analysis of Event Synchronization in A Parallel Programming Tool David](#)

www.cs.cmu.edu/~jass/papers/ppopp90.ps

[Cache Coherence Using Local Knowledge - Ervan Darnell \(1993\) \(Correct\) \(15 citations\)](#)

for significant improvements. 1 Introduction Data race free programs executing on a shared memory

cache or write-back cache triggered by **synchronization events**. Values are moved from main memory to
softlib.rice.edu/pub/CRPC-TRs/reports/CRPC-TR93560-S.ps.gz

[Analyzing Traces with Anonymous Synchronization - David Helmbold \(1990\) \(Correct\) \(22 citations\)](#)

semaphores. They distinguish between an actual **data race**, which is a **data race** exhibited by the

P. A. Emrath, S. Ghosh, and D. A. Padua. **Event synchronization** analysis for debugging parallel programs.

operations as capable of generating **synchronization events**. 1. Introduction 3 ffl and a (positive

ftp.cse.ucsc.edu/pub/tr/ucsc-crl-89-42.ps.Z

[Detecting Data Races by Analyzing Sequential Traces - Helmbold, McDowell, Wang \(1990\) \(Correct\) \(3 citations\)](#)

[Detecting Data Races by Analyzing Sequential Traces David P.](#)

P. A. Emrath, S. Ghosh, and D. A. Padua. **Event synchronization** analysis for debugging parallel programs.

objects are referenced between any two **synchronization events**. This can be done by generating an event

ftp.cse.ucsc.edu/pub/tr/ucsc-crl-90-57.ps.Z

[Towards Integration of Data Race Detection in DSM Systems - In \(Correct\)](#)

Towards Integration of **Data Race** Detection in DSM Systems To appear in JPDc

[10]The basic observation is that in any **synchronization event** there is some kind of a logical token.

in their code. We thus discuss **synchronization events** in terms of release and acquire

www.cs.technion.ac.il/~assaf/publications/oren.ps

Try your query at: [Amazon](#) [Barnes & Noble](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

CiteSeer - citeseer.org - [Terms of Service](#) - [Privacy Policy](#) - Copyright © 1997-2002 [NEC Research Institute](#)